



Program Update

# Data Automated Communications Terminal (DACT)



**C2 OAG Brief 17 Sep 02**

DACT Project Officer

PG MAGTF C4ISR IS/Ground C<sup>2</sup> Systems

Marine Corps Systems Command

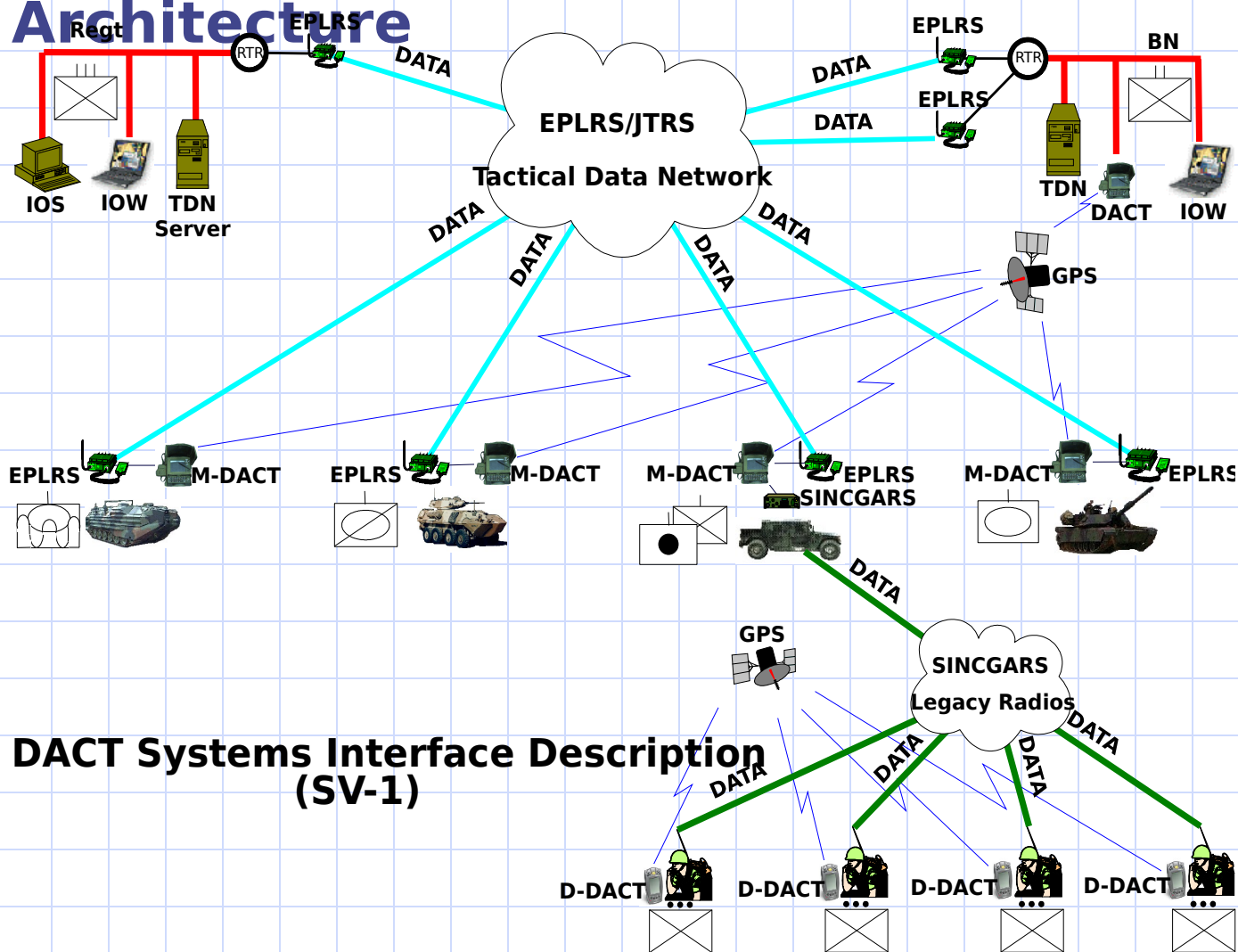


## **System Description**

- Tactical input/output battlefield situational awareness system and communications terminal
  - Ruggedized Handheld Computer (RHC) / Ruggedized PDA
  - Command & Control PC (C2PC) / Command & Control CE (C2CE)
- Provides digital mapping and GPS navigation to small unit leaders
- Gives commanders/section leaders ability to exchange preformatted Variable Message Format (VMF) messages, routes and overlays
- Automates critical friendly and enemy maneuver unit PLI reporting - frees small unit leaders to focus on other critical elements of warfighting
- Injects PLI into the MAGTF commander's COP, thus greatly increasing tempo of battle, while greatly reducing the potential for fratricide



# Concept of Employment - DACT Architecture





## Upgraded RHCs: Key Features



- 500 MHz Pentium III Processor
- **256 MB RAM**
- VGA 6.4" Touchscreen monitor
- Win NT
- QWERTY Keyboard
- 2 COM, LAN, SCSI
- **Dual Channel Programmable Modem**
- PPS GPS
- **20 GB Hard Drives**
- 2 PCMCIA Slots
- 2GB PCMCIA HD



## DACT Capabilities



### Digital Messaging

- Variable Format Messages (VMF)
- Fill in the blank messages
  - ♦ SPOT report
  - ♦ SALUTE report
  - ♦ Situation Report
  - ♦ Etc...



### Mapping

- Electronic version of paper maps
- Load any electronic map produced by NIMA



### Overlays

- John Madden type drawing capability over military maps
- Ability to draw in layers
  - ♦ Similar concept of multiple layers of acetate over paper map
  - ♦ Turning on/off any combination
- Edit someone else's overlay and transmit back for review



### Route Planning

- Plot way points as an Overlay
- Transmit to anyone on C2PC



### Navigation

- Built in precision GPS indicating position over a moving map display
  - ♦ Position, Altitude, course, speed



### Situational Awareness (S/A)

- Friendly S/A Common Tactical Picture (CTP) from IOS
- Enemy Situation



## **D-DACT Prototype Hardware Description**



- Rugged handheld device
- SAASM GPS (objective)
- SINCGARS data comms via tactical modem
- PocketPC 2002
- Command & Control CE (C2CE) software package
  - Maps
  - Overlays
  - Routes
  - VMF Messages
  - Connect to C2PC Gateway for CTP

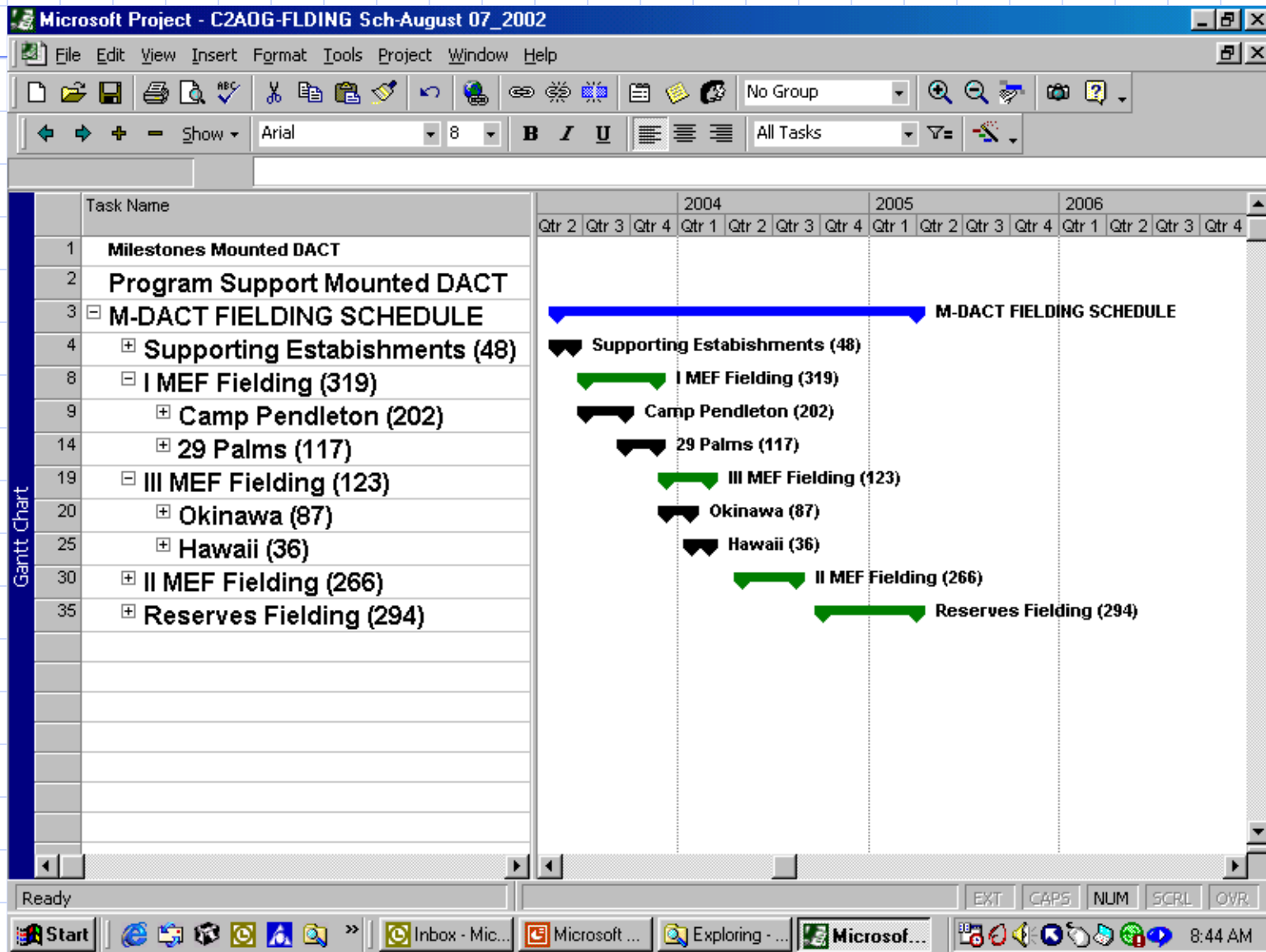


## Acquisition Objective

Fielding	Mounted	Dismounted
• I MEF	319	561
• II MEF	266	502
• III MEF	123	276
• MARFORRES	294	552
• Support Est.	48	57
• Total	1,050	1,948
• Mounted	1,050	
• Dismounted	1,948	
• TOTAL :	2,998	



# DACT Fielding Schedule





## *Data Automated Communications Terminal*



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user name: team dact password: gc2sdact#



# Macro DACT Delivery Schedule

		UNIT			TOTAL			
		PLANNED		TOTAL	HMMWV/	TOTAL	TOTAL	TOTAL
T/E	UNIT	ALLOWANCE	MULT	DACT	MRC-145A	M1A1	AAV	LAV
N1111	HQSVCCO, INF REGT, 1ST MARDIV	8	3	24	24			
N1162	HQSVCCO, INF BN, 1ST MARDIV	11	10	110	110			
N1511	HQSVCCO, 1ST TANK BN	11	1	11	10	1		
N1512	TANK CO, 1ST TANK BN	5	4	20	4	16		
N1611	HQSVCCO, 3D AA BN	15	1	15	9		6	
N1612	AAV CO D, 3D AA BN, 29 PALMS	14	1	14	4		10	
N1613	AAV CO, 3D AA BN	12	2	24	8		16	
N1614	AAV CO E, 3D AA BN	16	1	16	4		12	
N1751	HQSVCCO, 1ST LAR BN	10	1	10	3			7
N1752	LAR CO, 1ST LAR BN	5	4	20	0			20
N1771	HQSVCCO, 3D LAR BN	8	1	8	3			5
N1772	LAR CO, 3D LAR BN	5	3	15	0			15
N2108	FIRING BTRY, ARTY BN, 1ST MARDIV	2	12	24	24			
N2109	HQ BTRY, ARTY BN, 1ST MARDIV	2	4	8	8			
				<b>319</b>	<b>211</b>	<b>17</b>	<b>44</b>	<b>47</b>